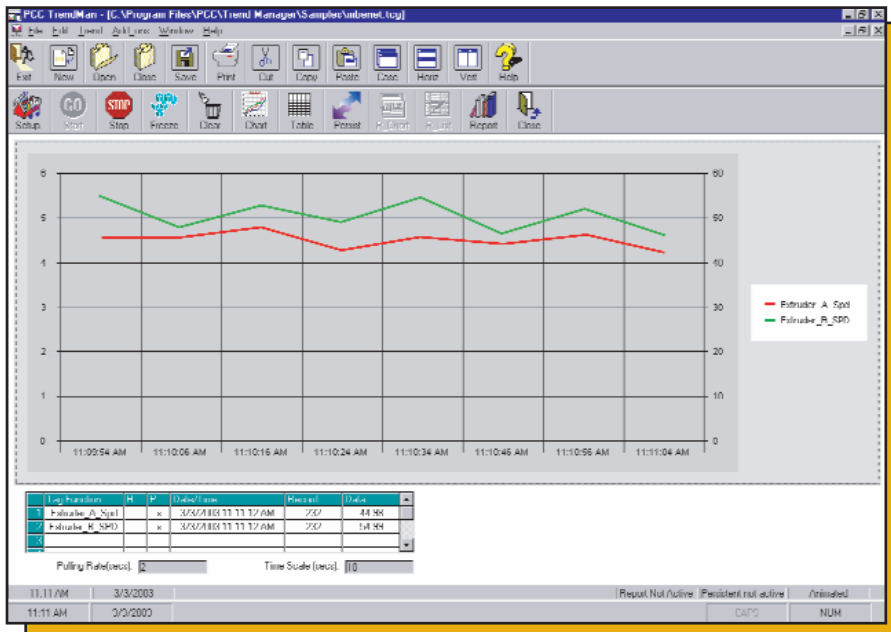


Trend Manager

Data Collection and Charting System



Trend Manager. This versatile data collection and charting instrument allows you to analyze blender performance and/or Gravitrol® System performance over a period of time.

Trend Manager has been developed to assist in tracking and plotting production data to better serve your production needs. Trend Manager can track accuracy of blend percentages, layer distribution ratios, and overall line stability. As a processor, you'll benefit greatly with this automation software. By plotting and tracking information, you can verify that blend percentages are accurate and consistent. In addition, total machine throughput data can be charted to verify overall line stability on a mono-layer line and layer distributions on a co-extrusion line to assure a good, consistent finished product.

Using a Microsoft Windows-based PC, and the remote communication capabilities of Process Control equipment, Trend Manager can collect, graph, and store important performance data. Communication is established with the mini-op con-

troller using a serial or Ethernet port connection, with the aid of an OPC/DDE server package residing in the PC. Process Control can provide the EPCCSERV DDE server package, if one is not already available. All communication protocols supported by the mini-op controller are also supported by the Trend Manager.

Data can be viewed and charted instantly or written to the PC's hard disk. The amount of data captured is limited only by the size of the hard disk. Historical and instantaneous data can be charted and tabulated all while current data is being captured. Furthermore, Trend Manager's reporting features allow statistical analysis to be performed. This feature can be set to occur automatically or at predefined intervals.

Finally, data can be exported to an external file for import into spreadsheets or other applications.

The adaptability of Trend Manager automation software can further assist you in tracking and improving your production's performance to ensure you are getting the most out of your blending and/or Gravitrol® systems. ■

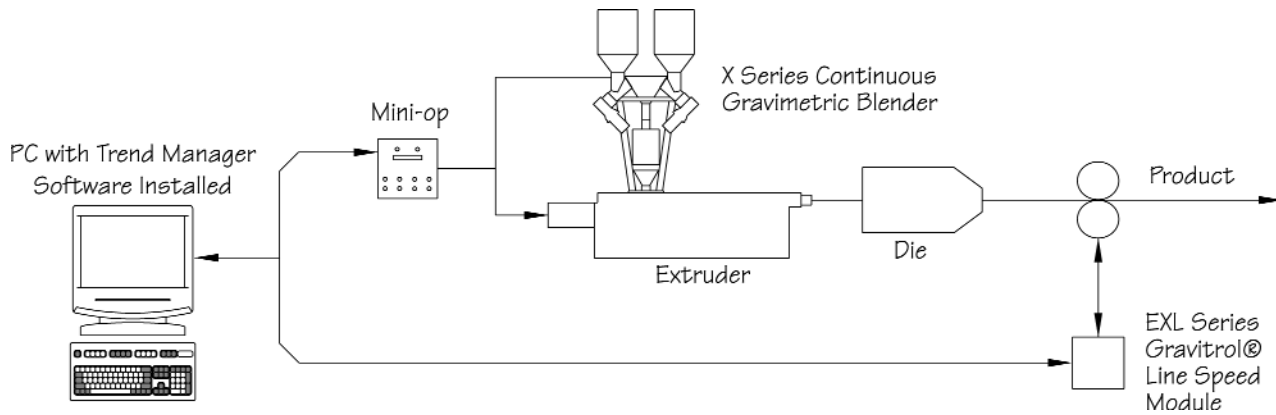
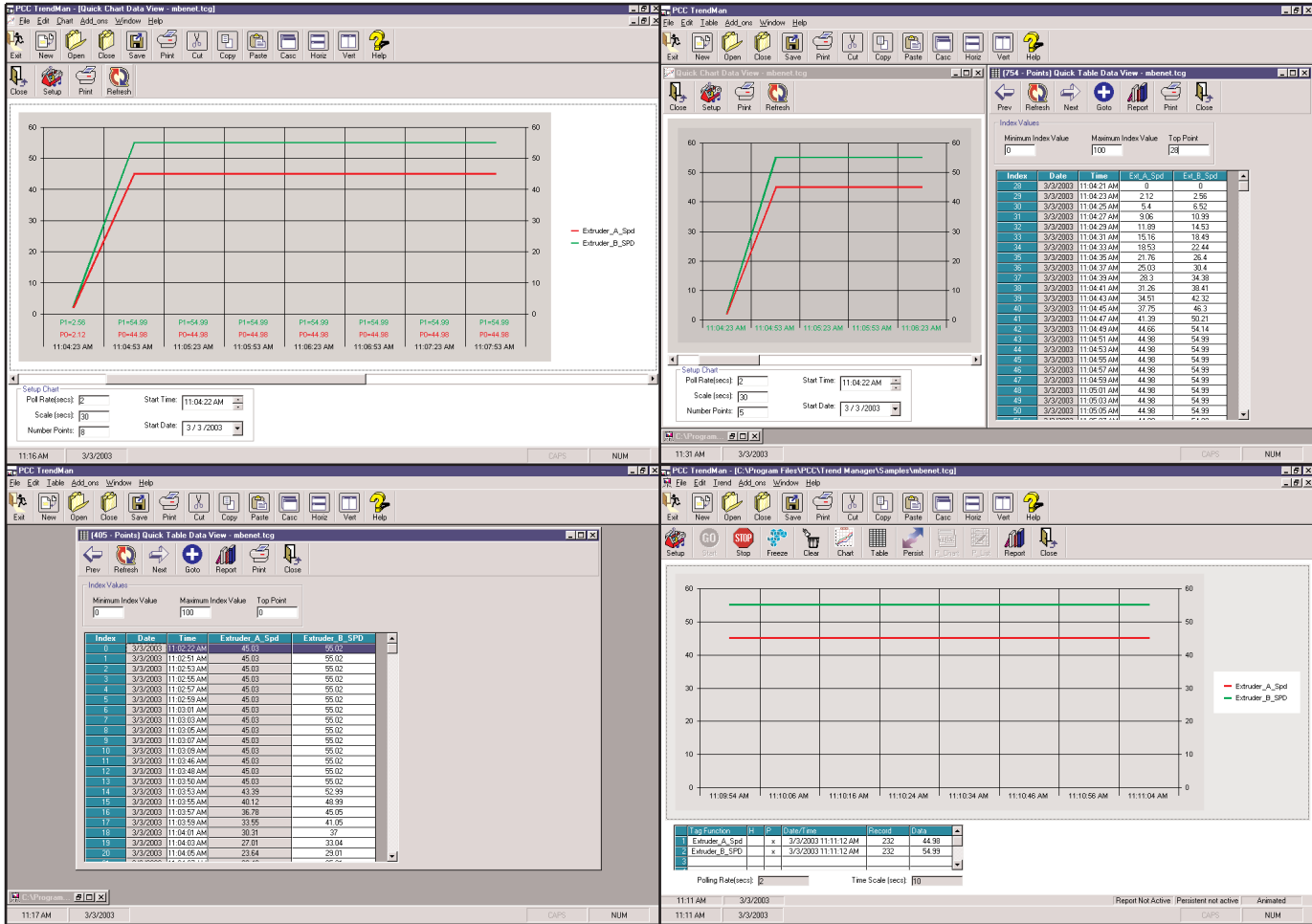
Standard Features

- Works with any OPC/DDE server which supports the remote protocols of the mini-ops.
- Quick installation on any Windows-based PC/Laptop.
- Real-time charting or plotting of data collected.
- Data can be logged to any hard drive for later charting/plotting.
- Report generation showing Min., Max., Mean, Std. Dev., Bounds Checking.
- Automatic report generation to a file or printer.
- Tag definitions provided for most common data collection values.
- Can work on non-Process Control equipment which have the capability of communication with a DDE/OPC server.

Minimum Requirements

- Windows based PC with at least 15 meg of free space.
- CD-ROM and 3.5 Floppy disk drives for licensing and installation.
- Available serial communication port.

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Depicted above: a complete Gravitrol® system (featuring a PC with Trend Manager software installed, Mini-Op Operator Station, EXD Drive Speed Control Module, an X Series Gravimetric Blender and an EXL Line Speed Control Module) controlling a simple extrusion application.



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